TOXICOLOGY

Test	Minimum Sample Required	Comments:	
Aflatoxin	1 lb. feed (grain)	No hay or silage	
Anticoagulant (screen)	5 ml serum, blood, plasma 10 g bait 25 g stomach contents 150 g liver	Includes:	Warfarin, Bromadiolone, Difenacoum, and Brodifacoum Avoid submitting samples in medicine bottles Do not freeze sample
Arsenic	10 g liver and kidney 10 ml urine 10 ml blood 10 g stomach contents 100 ml water 50 g soil 10 g feed	Liver or kidney is the preferred sample from a dead animal.	
Brodifacoum	See Anticoagulant		
Bromadiolone	See Anticoagulant		
BUN	2 ml ocular fluid 2 ml serum or plasma		
Calcium	2 ml ocular fluid 2 ml serum		
Carbamate (Pesticide Screen)	10 g stomach contents 50 g rumen contents 10 g bait 1 lb. feed	Avoid submitting samples in medicine bottles. Avoid plastic containers. Glass is preferred.	
Copper	5 ml serum 10 g liver or kidney 1 lb. feed	Liver is preferred over kidney.	

Test	Minimum Sample Required	Comments:
Cyanide	Plants with cyanogenetic potential i.e. sorghums, sudan grass, corn 1 lb. dry plants 5 lb. wet plants 50 g muscle (heart)	Samples should be quick frozen as soon as possible for shipment to the lab.
Dicumarol	Feeds containing sweet clover 5 lb. wet plants 1 lb. dry plants 10 -20 ml blood	
Difenacoum	See Anticoagulant	
Drug Screen *See end, for list of drugs included in screen.	10 - 20 ml serum, whole blood (plasma) 10 - 20 ml urine 10 g bait, pills 10 g stomach contents	Avoid submitting samples in medicine bottles. Urine is the preferred sample.
Ethylene glycol	5 ml urine 5 ml serum, plasma 10 g stomach contents 10 g bait	
Fumonisin	1 lb. feed	No hay or silage.
Gossypol, free	1 lb. feed containing cottonseed	
Iron	10 ml serum	
Lead	5 ml blood, (EDTA, heparin) 10 g liver and kidney 10 ml water 10 g stomach contents	Heparin is preferred. Submit both liver and kidney.
Magnesium	2 ml ocular fluid 2 ml serum	

Test	Minimum Sample Required	Comments:
Metal Screen	5 ml serum or plasma (per screen) 10 g liver, kidney 1 pt water	Submit serum samples in royal blue top vaccutainer tubes for trace metal analysis if zinc is included in screen. Call lab for details prior to testing.
Monensin	1 lb. feed	
Nitrate (qualitative)	2 ml ocular fluid	
Nitrate (quantitative)	1 lb. dry forage 5 lb. wet forage 1 pt water	
Ochratoxin	1 lb. feed (grain)	No hay or silage.
Organochlorines (pesticide screen)	10 g stomach contents 20 g rumen contents 10 g liver or fat 10 ml blood	Avoid submitting samples in medicine bottles. Avoid plastic containers. Glass is preferred.
Organophosphates (pesticide screen)	10 g stomach contents 20 g rumen contents 1 lb. feed	Avoid submitting samples in medicine bottles. Avoid plastic containers. Glass is preferred.
pH	1 lb. silage	
Potassium	2 ml ocular fluid 2 ml serum	
Protein, Total	.5 ml serum	Should not be hemolyzed or lipemic.

Test	Minimum Sample Required	Comments:
Selenium	10 g liver or kidney 10 ml whole blood 10 ml serum	Whole blood is preferred over serum.
Sodium	2 ml ocular fluid 2 ml serum 2 ml urine 1 lb. feed	
Strychnine	10 g stomach contents 10 ml urine 5 ml serum 50 g kidney (more if available)	Avoid submitting samples in medicine bottles.
T-2	1 lb. feed (grain)	No hay or silage.
Urea	1 lb. feed	
Vomitoxin	1 lb. feed (grain)	No hay or silage.
Warfarin	See Anticoagulants.	
Zearalenone	1 lb. feed	No hay or silage.
Zinc	10 g liver or kidney 5 ml serum 10 g stomach contents 1 lb. feed 5 ml serum	Serum sample should be in Royal blue top vaccutainer tube for trace metal analysis.

*Drug Screen

Drug Screen A					Drug Screen B		
Acetaminophen Amitriptyline Amphetamine Caffeine Chlorpromazine	Cocaine Codeine Diazepam Doxepin	Meperidine Methamphetamine Methadone Methaqualone	Morphine Nortiptyline PCP Propoxyphen	Quinine Strychnine Trifluopromazine Trimeprazine	Amobarbital Aprobarbital Barbital Butabarbital Diazepam	Ethinamate Glutethimide Pentobarbital Phenobarbital	Phenytoin Secobarbital

Call the lab if drug of interest is not listed.

10 gram of tissue is approximately equal in size to a golf ball.